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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/766,396 01/28/2004		Robert A. Erickson	K-2081	3342	
27877 759	7877 7590 04/26/2005		EXAMINER		
KENNAMETA P.O. BOX 231	AL INC.	ADDISU, SARA			
1600 TECHNOI	LOGY WAY	ART UNIT	PAPER NUMBER		
LATROBE, PA 15650			3722		

DATE MAILED: 04/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					· · · · · · · · · · · · · · · · · · ·		
		Applicat	ion No.	Applicant(s)			
-		10/766,3	396	ERICKSON, ROBE	RT A.		
	Office Action Summary	Examine	r	Art Unit			
-		Sara Add		3722			
Period fo	The MAILING DATE of this communi	cation appears on th	e cover sheet with the d	correspondence add	ress		
A SH THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNION of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no e unication. o) days, a reply within the sta tutory period will apply and will, by statute, cause the ap	vent, however, may a reply be tir atutory minimum of thirty (30) day will expire SIX (6) MONTHS from plication to become ABANDONE	nely filed s will be considered timely. the mailing date of this con D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) file	d on <u>28 January 20</u>	<u>04</u> .				
2a) <u></u> □	This action is FINAL .	b)⊠ This action is	non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-12 is/are pending in the a 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn from c			•		
Applicat	ion Papers			•			
10)⊠	The specification is objected to by the The drawing(s) filed on 28 January 2 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	004 is/are: a)⊠ acction to the drawing(s) the correction is requ	be held in abeyance. Se ired if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFI	R 1.121(d).		
Priority (under 35 U.S.C. § 119						
12) <u>□</u> a)	Acknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Certified copies of the priority Copies of the certified copies of application from the Internation	documents have be documents have be of the priority docun nal Bureau (PCT Ru	en received. en received in Applicat nents have been receiv ule 17.2(a)).	ion No ed in this National S	Stage		
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (P		4) Interview Summar Paper No(s)/Mail D	ate	450)		
	mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date 8/16/04 and 12/16/64.	PTO/SB/08)	5) Notice of Informal 6) Other:	∼atent Application (PTO	-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3, 7 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claimed subject matter (tool length of approximately 80-120 mm) is not supported by the Specification. Applicant mentions tool length of 100mm as an example (Page 6, line 5), but there is no mention of the specific range 80-120 mm. Applicant also states no criticality for this claimed range.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

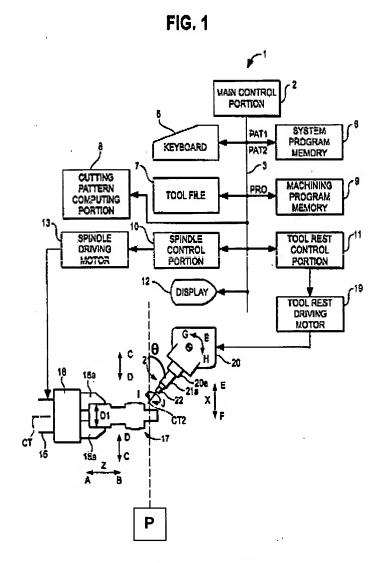
Claims 1, 4, 5, 8, 9 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamazaki et al. (U.S. Patent No. 6,453,782).

Yamazaki et al. teaches a tool rest (tool holder) (20) having an insert (22) that is aligned/lies on the same centerline as the tool and rotational axis (CT2) (see Figures 1 and 4b). Yamazaki et al. also teaches the centerline of the tool holder (20) being able to

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move freely in the B axis, indicated by G-H arrow in fig 1 (Col. 2, lines 54-59), therefore be aligned at a non-zero angle (θ) with respect to an axis, P, that is perpendicular to a longitudinal axis work piece (17) (see diagram below). Furthermore, Yamazaki et al. teaches machining program (PRO) being used to decide the degree of the B-axis angle (i.e. non-zero angle) (Col. 4, lines 60-63).



Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, 6, 7, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al. (U.S. Patent No. 6,453,782).

Yamazaki et al. teaches a tool as set forth in the above rejection.

Yamazaki et al. fails to specify the non-zero angle to be in the range of 25-45 degrees.

Regarding claims 2, 6 and 10, although, Yamazaki et al.'s teaching does not recite the specific range, Yamazaki et al. teaches a machining program (PRO) being used to decide the degree of the B-axis angle in fig 1 (Col. 4, lines 60-63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize a computer program to rotate the tool holder at an appropriate optimize angle (25-45 degrees) since such a modification would have allowed a greater flexibility of cut.

Regarding claims 3, 7 and 11, Yamazaki et al. discloses the claimed invention except for the tool length size being in the tool length range. It would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify the tool length of Yamazaki et al.'s invention since examiner takes Official Notice of the equivalence of "tool length of 80-120mm" [as claimed in claims 3, 7 and 11 of the instant application] and "shortened tool length due to inclination/tilting of tool holder spindle" (as

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taught by Applicant on Page 6, lines 1-5 and supported by Yamazaki et al.'s tilted/inclined tool holder), for their use in tool machining art and the selection of any of these known equivalents to clear the work holding device would be within the level of ordinary skill in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sara Addisu at (571) 272-6082. The examiner can normally be reached on 8:30 am - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara Addisu (571)272-6082 Art Unit: 3722

DERRIS H. BANKS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700